

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 May 2001 (31.05.2001)

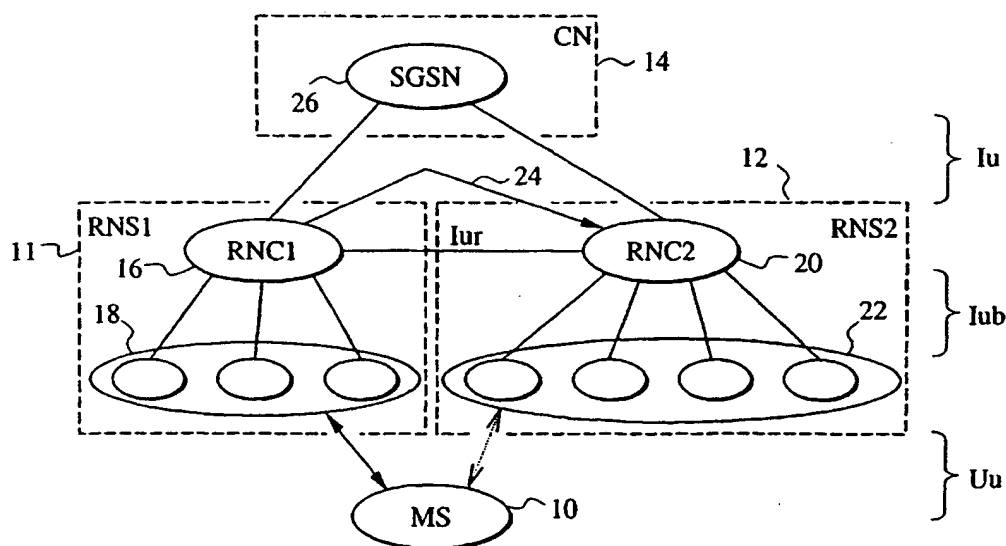
PCT

(10) International Publication Number
WO 01/39525 A3

- (51) International Patent Classification⁷: **H04Q 7/38**
- (21) International Application Number: **PCT/FI00/01709**
- (22) International Filing Date:
20 November 2000 (20.11.2000)
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
60/167,924 29 November 1999 (29.11.1999) **US**
- (71) Applicant: **NOKIA CORPORATION [FI/FI]**: Keilalahdentie 4, FIN-02150 Espoo (FI).
- (71) Applicant (for LC only): **NOKIA INC. [US/US]**: 6000 Connection Drive, Irving, TX 75039 (US).
- (72) Inventors: **SUUMÄKI, Jan**: Teekarinkatu 5 A 23, FIN-33720 Tampere (FI). **KALLIO, Hans**: Lapintie 4 B 6, FIN-33100 Tampere (FI). **AHMAVAARA, Kalle**: Hakaniemenranta 18 D 62, FIN-00530 Helsinki (FI). **KALLIOKULJU, Juha**: Jokiojstentie 5, FIN-37470 Vesilahti (FI). **TOURUNEN, Ari**: Leiliitie 1 D 36, FIN-02230 Espoo (FI).
- (74) Agent: **MAGUIRE, Francis, J.**: Ware, Fressola, Van Der Sluys & Adolphson LLP, 755 Main Street, P.O. Box 224, Monroe, CT 06468 (US).
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).**
- Published:
— with international search report
- (88) Date of publication of the international search report:
10 May 2002

[Continued on next page]

(54) Title: **TRANSFER OF ALGORITHM PARAMETERS DURING HANDOVER OF A MOBILE STATION BETWEEN RADIO NETWORK SUBSYSTEMS**



(57) Abstract: Instead of renegotiating parameters relating to an optimization algorithm previously negotiated between a mobile station and a target radio network subsystem during connection handover of the mobile station from a source radio network subsystem, prestored parameters are transferred instead between the source radio network subsystem and the target radio network subsystem either directly over an existing Iur interface or via a core network over an Iu interface.

WO 01/39525 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Intern. Application No

PCT/IB 00/01709

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 00 36860 A (NOKIA NETWORKS OY ; EINOLA HEIKKI (FI); BAECK JUHA (FI); HULKKONEN) 22 June 2000 (2000-06-22) page 8, line 12 - line 20 page 11, line 16 - line 25 ---	1,3
E	WO 01 20938 A (NOKIA NETWORKS OY ; AHMAVAARA KALLE (JP)) 22 March 2001 (2001-03-22) page 10, line 17 - page 14, line 19 ---	1,3
P,X	WO 00 49784 A (NOKIA MOBILE PHONES LTD ; NIEMELAE TUOMAS (FI); SUUMAEKI JAN (FI)) 24 August 2000 (2000-08-24) page 10, line 15 - line 17 ---	1,3
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

25 May 2001

Date of mailing of the international search report

07/06/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Leouffre, M

INTERNATIONAL SEARCH REPORT

Intern. Application No

PCT/IB 00/01709

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	EP 1 058 471 A (NEC CORPORATION) 6 December 2000 (2000-12-06) column 3, line 42 - line 56 -----	1,3
A	EP 0 836 338 A (NOKIA MOBILE PHONES LTD) 15 April 1998 (1998-04-15) page 7, line 38 -page 9, line 25 -----	1,3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 00/01709

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0036860 A	22-06-2000	FI 990757 A AU 1661900 A	17-06-2000 03-07-2000
WO 0120938 A	22-03-2001	NONE	
WO 0049784 A	24-08-2000	FI 990322 A AU 2673800 A	17-08-2000 04-09-2000
EP 1058471 A	06-12-2000	GB 2352585 A CN 1275872 A JP 2000358267 A	31-01-2001 06-12-2000 26-12-2000
EP 0836338 A	15-04-1998	GB 2318258 A,B GB 2337900 A,B JP 10191425 A US 6134439 A	15-04-1998 01-12-1999 21-07-1998 17-10-2000

THIS PAGE BLANK (12919)

THIS PAGE BLANK (USPTO)